Table 1: Determining Minor NSR Permitting & BACT Applicability

Type of change to Source	Type of Emissions unit Change	Are there Previous Permit Limits on the Unit?	If so, are the Previous Permit Limits being Changed?	Is there a Concurrent Emission Decrease at the Unit?	**Permit / BACT Applicability**[2] Generally Based On What the New Uncontrolled Emissions or NEI of the Source Would Be If NO New Permit were to be Issued.
1. Emission Increase from a Proposed **New Source**. (Applicability is based upon the future "new uncontrolled emissions" of all emissions units proposed for construction.)					
Proposed New Source	New or Relocated Emissions Units	No			**New Uncontrolled Emissions (NUE) of New Source.** Use the "unrestricted emission rate" (UER) for the New Uncontrolled Emissions of each of the new units.
2. Emission Changes from **Particular Changes at a Modified Source**. (Applicability is based upon the "net emissions increase" of all changes at the source proposed for modification.)[1]					
Proposed Modified Source[4]	A. New or Relocated Emissions Units	No		Yes or No	**New Uncontrolled Emissions – Current Uncontrolled Emissions (NUE - CUE) of each New Unit.**[5] NUE = MRC at 8760 hrs/yr without controls. CUE = 0 since it is a new/relocated unit.
	B. Modified or Reconstructed Emissions units	No		Yes or No	**(NUE - CUE) for each Modified Unit.**[5] NUE = MRC at 8760 hrs/yr without controls. CUE = MRC at 8760 hrs/yr without controls.
	C. Modified or Reconstructed Emissions units	Yes	No	Yes or No	**(NUE - CUE) for each Modified Unit.**[5] NUE = MRC at current throughput limit without controls. CUE = MRC at current throughput limit without controls.
	D. Modified or Reconstructed Emissions units	Yes	Yes	Yes or No	**(NUE - CUE) for each Modified Unit.**[5] NUE = MRC at 8760 hrs/yr without controls. CUE = MRC at current throughput limit without controls.
3. Concurrent Emission Increases from **Debottlenecked Units at a Modified Source**: For units that have been evaluated without consideration of operational constraints, there will be no increase in uncontrolled emissions. Where operational restrictions were previously considered in determining "capacity", an increase in uncontrolled emissions may be considered.					
4. Concurrent Emission Reductions from any other **Emissions Units used for "Netting" at a Modified Source**.[3] Since emission reductions are not enforceable without permit limits, they cannot be used to avoid permitting applicability. The uncontrolled increase from each unit affected in a project is used as a BACT trigger for that unit.					

[1] The "net emissions increase" (NEI) is the amount by which the sum of the following exceeds zero: (i) the increase in the uncontrolled emission rate (NUE - CUE) from a particular physical change or change in the method of operation at a stationary source plus (ii) any other increases [i.e. such as those due to debottlenecking other emissions units] and decreases [i.e. emission reductions due to netting reductions made at other emissions units] in the uncontrolled emission rate at the source that are concurrent with the particular change and are otherwise creditable. The "net emission increase" may be calculated as follows:

$$NEI = \Sigma\,[(NUE - CUE)_{\text{particular changes as determined by section 2}}] + \Sigma\,[(NUE - CUE)_{\text{debottlenecked changes as determined by section 3}}]$$

[2] For BACT applicability purposes, the permit-limited future NUE for particular changes and any debottlenecked units may **not** be calculated using any proposed permit limits. BACT applicability is the same as permit applicability whereas only state and federally enforceable permit conditions can be used.

[3] Creditable actual emission increases and decreases must be concurrent with and directly resultant from the particular change, and also real, excess, quantifiable and either federally enforceable or enforceable as a practical matter. Excess means that it has not been previously relied upon in issuing a current NSR permit.

[4] A source may be modified by physical or operational changes to one or more emissions units that meet the definitions of any of the following: construction of one or more new emissions units, relocation of one or more emissions units (from another facility), modification of one or more emissions units, or reconstruction of one or more emissions units; or any combination of them.

[5] Annual uncontrolled emissions shall be based on the maximum annual rated capacity (based on 8,760 hours of operation per year) of the emissions unit, unless the emissions unit or stationary source is subject to state and federally enforceable permit conditions that limit the annual hours of operation. Enforceable permit conditions on the type or amount of material combusted, stored, or processed may be used in determining the uncontrolled emission rate of an emissions unit or stationary source.

Key to Abbreviations:

NUE "New Uncontrolled Emissions"
CUE "Current Uncontrolled Emissions"
MRC "Maximum Rated Capacity"
UER "Unrestricted Emissions Rate"

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